

WiRES-X Automation

Category: Automation,Projects,WiRES-X

January 27, 2019

Yaesu does not provide a mechanism that allows the WiRES-X software to be controlled by another program, i.e., having another program switch to a certain Room when a net starts.

Windows does, however, permit another program to send events to a program. Each window, menu item, and dialog in a Windows program has a unique identifier. It is possible to use these identifiers to send "message" to the WiRES-X software.

The WiRES-X Automation Project's purpose is to bring together people who are interested in developing this technology and sharing their results.

To get things going, here are two mechanisms for automating WiRES-X:

1. AutoIT: <http://www.autoitscript.com>
2. Python – an excellent programming language found at python.org

Dave, N9TOW, provided the following information:

Packages I have installed on my WiresX system.

```
C:\Users\WiresX>pip list
```

```
comtypes (1.1.3)
```

```
pip (9.0.1)
```

```
pypiwin32 (220)
```

```
pywinauto (0.6.3)
```

```
setuptools (28.8.0)
```

```
six (1.10.0)
```

```
https://github.com/pywinauto/pywinauto
```

To install

```
pip install -U pywinauto
```

Script that executes changing channels on WiresX app

```
import time
from pywinauto import Application
    app = Application().connect(path="C:\Program Files
(x86)\YAESUMUSEN\WIRES-X\wires-X.exe")
app.WiresX.menu_select("Connect(C)->Connect To(T)")
time.sleep(1.5)
app.InputID.Edit.set_edit_text("21493")
time.sleep(.5)
app.InputID.OK.click()
time.sleep(4)
dialogs = app.windows()
##app.Dialog.CloseButton.click()
```

Python Program

Bill, W9LBR, developed a Python program that runs on the WiRES-X computer. [The software has been updated as of 12-Feb-2024. See more here.](#)

This is from his description:

WXscheduler.pyw is a Python 3 program that automates certain aspects of

Wires-X Room/Node connections according to a userdefined schedule.

To that end WXscheduler.pyw must be run on the same Windows PC that hosts the Wires-X application controlling either an HRI-200 or

a USB connected radio that supports PDN operation.

Schedulable operations:

- Connect
- Disconnect
- SetUnlimitedTOT
- SetTimeoutTOT
- Restart Wires-X App

Manual operation: Button that causes a Force Disconnect

Bonus operation: Displays Last Heard information that the Wires-X app updates once a minute. Converting Lat/Lon into Grid Square if available.

A zip file containing instructions and the Python program is available at WXScheduler.

Update History

2 June 2023 v1.3 updates: - Last Heard now displays FT5-D, FTM-200, and FTM-500 correctly - Desktop\Wires-X_Last_Heard.html now generated to be viewed with PC browser

12 Feb 2022 updates: - Corrected grid square rendering of GPS coordinates as displayed in the Last Heard frame - version (v1.2) now displayed in main window title

5 Feb 2022 minor updates: - Fixed Last Heard display of recently manufactured FT70-D radios - WXScheduler.txt is now in DOS format, making it easier to read with Notepad 2022 version of WXScheduler.pyw - A scheduled event now performs multiple actions - Added File->Settings->Call settings actions - Fixed issue when Wires-X App is minimized - Fixed issue when Wires-X Settings window left open